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| App | licati | on/Co | ntrol | No. |
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Applicant(s)/Patent under Reexamination

10/088,558

Yoon-Young Kim

WILLIAMSON ET AL.

Examiner

1723

√ Rejected
= Allowed

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Cancelled

Restricted

Non-Elected

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| Cla      | im          | Date     |                    |          |          |            |  |          | <br>     |                   |    |
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| Cie      |             | Date     |                    |          |          |            |  |          |          |                   |    |
| Final    | Original    | 4/20/04  |                    |          |          |            |  |          |          |                   |    |
|          | 1           | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 2           | 1        | $\overline{}$      | _        | $\vdash$ |            | Н  |          |          |                   |    |
|          | 1<br>2<br>3 | 777      |                    |          | _        |            |  |          |          |                   |    |
|          | 4           | 1        |                    |          |          |            |  |          |          |                   |    |
|          | <b>4</b> 5  | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 6           | 1        |                    |          |          |            |  |          |          |                   | ĺ  |
|          | 7           | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 8           | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 9           | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 10          | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 11          |          |                    |          |          |            |  |          |          |                   |    |
|          | 12          | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 12<br>13    | 1        |                    |          | Г        |            |  |          |          |                   |    |
|          | 14<br>15    | 1        |                    |          |          |            |  |          |          |                   | l  |
|          | 15          | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 16          | 1        |                    |          |          |            |  |          |          |                   | 1  |
|          | 17<br>18    | 1        |                    |          |          |            |  |          |          |                   | Ì  |
|          | 18          | 1        |                    |          |          |            |  |          |          |                   | ĺ  |
|          | 19          | 1        |                    |          |          |            |  |          |          |                   | l  |
|          | 20          |          |                    |          |          |            |  |          |          |                   | 1  |
|          | 21          | 1        |                    |          |          |            |  |          | -        |                   | ı  |
|          | 22          | 1        | П                  |          |          |            |  |          | -        |                   | ١  |
|          | 23<br>24    | 1        |                    |          |          |            |  |          |          |                   | ١  |
|          | 24          | 1        |                    |          |          |            | Г  |          |          |                   | l  |
|          | 25          | 1        |                    |          |          |            |  |          |          |                   | ı  |
|          | 26          | 1        | Г                  |          |          |            |  |          |          |                   |    |
|          | 27          | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 28<br>29    | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 29          |          |                    |          |          |            |  |          |          |                   |    |
|          | 30          | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 31          | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 32          | 1        |                    |          |          |            |  |          |          |                   |    |
|          | 33          |          |                    |          |          |            |  |          |          |                   |    |
|          | 34          |          |                    |          |          |            |  |          |          |                   | Į  |
|          | 35          | 匚        |                    | Ĺ        |          |            |  | 匚        | Ĺ        |                   | Į  |
|          | 36          |          | $oxedsymbol{oxed}$ |          | <u> </u> |            | <u> </u>                                     |          | _        |                   |    |
| L        | 37          | <u> </u> | $oxed{oxed}$       | <u> </u> | _        | L.         | <u> </u>                                     | <u> </u> |          | $ldsymbol{oxed}$  | Ι΄ |
|          | 38          | _        |                    | _        | _        | _          | $ldsymbol{oxed}$                             | <u> </u> |          | <u> </u>          |    |
| <u></u>  | 39          |          | <u> </u>           | oxdot    | <u> </u> | L          | <u> </u>                                     | <u> </u> | <u> </u> | <u> </u>          |    |
|          | 40          | _        | _                  | <u> </u> | <u> </u> | _          | <u> </u>                                     | <u> </u> | _        | <u> </u>          |    |
| ·        | 41          | <u> </u> |                    | <u> </u> | <u> </u> | oxdapsilon | <u> </u>                                     | <u> </u> | <u> </u> | <u> </u>          |    |
| <u> </u> | 42          | <u> </u> | <u> </u>           | <u> </u> | _        | <u> </u>   | <u>                                     </u> | <b>—</b> | <u> </u> | <u> </u>          |    |
| <u></u>  | 43          | _        | <u> </u>           | _        | <u> </u> | <u> </u>   | <b> </b> _                                   | <u> </u> | Ŀ        |                   |    |
|          | 44          | L_       | _                  | _        |          | _          | <u> </u>                                     |          |          | _                 |    |
| <u></u>  | 45          |          | <u> </u>           | <u> </u> | <u> </u> | <u> </u>   | _  |          | _        | <u> </u>          |    |
| <u></u>  | 46          | _        | <u> </u>           | L        | _        | <u> </u>   | <u> </u>                                     | <u> </u> | L        | <u> </u>          |    |
| ļ        | 47          | <u> </u> | <u> </u>           | <u> </u> | _        | <u> </u>   | <u> </u>                                     | <u> </u> | L        | <b> </b> _        | Į  |
| <u></u>  | 48          | L.       | <u> </u>           | L_       |          | <u> </u>   | <u> </u>                                     | <u> </u> | L        | $ldsymbol{f eta}$ | 1  |
| <u></u>  | 49          | <u> </u> | <u> </u>           | _        | <u>L</u> | <u>L</u>   | <u> </u>                                     | <u>L</u> | 匚        | _                 |    |
| [        | 50          |          |                    |          |          |            |  |          |          | <u> </u>          |    |

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|----------|----------|--|--|--|--|--|--|--|--|----------|
|          |          |  |  |  |  |  |  |  |  |          |
| Final    | Original |  |  |  |  |  |  |  |  |          |
|          | 51<br>52 | _  |  |  |  |  |  | -  |  |          |
|          | 52       |  |  |  |  |  |  |  |  |          |
|          | 53       | _  |  |  |  |  |  |  |  |          |
|          | 54       |  |  |  |  |  |  | -  |  |          |
|          | 54<br>55 | $\vdash$   |  | -  | _  |  | _  | $\vdash$   | $\vdash$   | $\vdash$ |
| $\vdash$ | 56       | -  | _  | _  | -  | -  | _  | -  | -  |          |
|          | 50       | _  | -  |  | $\vdash$   | _  | $\vdash$   | -  | -  | Н        |
| <u> </u> | 57       | _  | _  | _  | _  | _  | _  | _  | _  | Н        |
| <u> </u> | 58       |  | _  |  |  |  |  | L  |  | Н        |
|          | 59       |  |  |  |  |  |  |  |  | Ш        |
|          | 60       |  | L  |  |  |  |  |  |  |          |
|          | 61       |  |  |  |  |  |  |  |  |          |
|          | 62       |  |  |  |  |  |  |  |  |          |
|          | 63       |  |  |  |  |  |  |  |  |          |
|          | 64       |  |  |  |  |  |  |  |  |          |
|          | 65       | Г  |  | Г  | П  |  |  | Г  | П  | П        |
|          | 66       |  |  | $\vdash$   | П  |  |  | Т  |  | П        |
| -        | 67       | $\vdash$   | _  | $\vdash$   | _  | _  | <del> </del>                                     | ┢  | _  |          |
|          | 68       | $\vdash$   | $\vdash$   | ⊢  | $\vdash$   | _  | ├─   | ┝  | $\vdash$   | Н        |
|          | 69       | $\vdash$   |  | ⊢  | $\vdash$   |  | -  |  | $\vdash$   | Н        |
| _        | 70       | ⊢  | _  | ⊢  | $\vdash$   |  | ├  | ⊢  |  | $\vdash$ |
| -        | .71      | ┝  |  |  |  |  | ┝  | ⊢  | <u> </u>   | Н        |
| _        | 1.71     | ┞—   |  | ├  |  |  | <u> </u>   | <u> </u>   | <u> </u>   | Н        |
| <u> </u> | 72       | <u> </u>   | -  | ├  | _  | _  | <u> </u>   | <u> </u>   | <u> </u>   | -        |
| <u> </u> | 73       | <u> </u>   |  | <u> </u>   |  | ļ  | <u> </u>   | _  | ļ  |          |
| <u> </u> | 74       | <u> </u>   |  | <u> </u>   | <u> </u>   |  | <u> </u>   | <u> </u>   | <u> </u>   | Ш        |
| <u> </u> | 75       | _  | <u> </u>   | _  | _  | _  | <u> </u>   | _  | _  | Щ        |
|          | 76<br>77 | _  | <u> </u>   | _  | <u> </u>   | _  | <u> </u>   | <u> </u>   | _  | Щ        |
|          | 77       | _  | L  | _  | <u> </u>   | _  | <u> </u>   | ┕  | <u> </u>   | Щ        |
|          | 78       | _  | _  |  | L  |  | L  |  | <u> </u>   | Щ        |
|          | 79       | L.   |  |  |  | _  | _  | <u>_</u>   |  | Ш        |
|          | 80       | L  | _  | L  |  | _  | L  | _  |  | Ш        |
|          | 81       | <u> </u>   |  |  |  |  |  | ļ  |  |          |
|          | 82       |  | L  |  |  |  | L  | _  |  |          |
|          | 83       |  |  |  |  |  |  | L  |  |          |
|          | 84       |  |  |  |  |  |  |  |  |          |
|          | 85       |  |  |  |  |  |  |  |  |          |
|          | 86       |  |  |  |  |  |  |  |  |          |
| ' 🗀      | 87       |  |  |  |  |  |  |  |  |          |
|          | 88       |  |  | Г  |  |  |  |  |  |          |
|          | 89       |  |  |  |  |  |  |  |  |          |
|          | 90       | Г  |  | Г  |  |  |  |  | Г  |          |
|          | 91       |  |  |  |  |  |  |  |  |          |
|          | 92       |  | Ι_   | $I^-$  | Г  |  |  | <u> </u>   | Γ  |          |
|          | . 93     |  |  | $\vdash$   |  | _  |  |  |  |          |
|          | 94       | $\vdash$   |  | $\vdash$   | Г  | Г  |  | Г  | Т  | П        |
|          | 95       | <u> </u>   | _  | <u> </u>   | $\vdash$   | Г  |  | Т  |  |          |
|          | 96       | $\vdash$   | $\vdash$   | $\vdash$   | <del>                                     </del> | $\vdash$   | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | Н        |
|          | 97       | <del>                                     </del> | -  | <del> </del>                                     | Ι-   | <u> </u>   |  | Т  | ┢  | 1        |
|          | 98       | <del>                                     </del> | $\vdash$   | $\vdash$   | <del>                                     </del> | -  | $t^{-}$  | 1  | $\vdash$   |          |
| -        | 99       | $\vdash$   | $\vdash$   | <del>                                     </del> | Ι-   | <del>                                     </del> |  | <del>                                     </del> | <del>                                     </del> | ┪        |
|          | 100      | t  | <del>                                     </del> | Н  | <del>                                     </del> | 1  | $\vdash$   | Т  | <del>                                     </del> | $\vdash$ |
|          | 1.55     |  |  |  |  |  |  |  | ш.   |          |

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|-------|--|--|----------|--|----------|----------|----------|-------------------------------------|--------------|----------|
|       |  |  |          |  |          |          |          | П                                   |              |          |
| Final | Original   |  |          |  |          |          |          |                                     |              |          |
|       | 101  |  |          |  |          |          |          |                                     |              |          |
|       | 102  |  |          |  |          |          |          |                                     |              |          |
|       | 103  |  |          |  |          |          | i        |                                     |              |          |
|       | 102<br>103<br>104  | Ш  |          |  |          |          |          |                                     | _            | Щ        |
|       | 105<br>106   |  |          |  |          |          |          |                                     |              |          |
|       | 106  |  |          | Ш  |          |          |          |                                     |              |          |
|       | 107  | _  |          | -  |          |          |          |                                     | _            | $\vdash$ |
|       | 108<br>109   |  | -        | Н  |          | -        |          |                                     |              | $\vdash$ |
|       | 110  |  | _        | Н  |          |          | $\vdash$ |                                     | _            | Н        |
|       | 110<br>111<br>112  | $\vdash$   | _        | -  |          | _        | $\vdash$ | -                                   | _            | Н        |
|       | 112  |  | —        | Н  | _        | $\vdash$ | _        | _                                   | _            | $\dashv$ |
|       | 113  |  |          | -  | _        | -        |          |                                     |              | _        |
|       | 113<br>114<br>115  |  |          |  |          |          |          |                                     |              |          |
|       | 115  |  |          |  |          |          |          |                                     |              |          |
|       | 116<br>117   |  |          |  |          |          |          |                                     |              |          |
|       | 117  |  |          |  |          |          |          |                                     |              |          |
|       | 118<br>119   |  |          |  |          |          | L.       |                                     |              | Ш        |
|       | 119  |  |          |  |          |          | _        | _                                   |              | Щ        |
|       | 120  |  |          |  |          | _        |          | ļ.,                                 |              | Щ        |
|       | 121  |  |          |  |          | _        | <u> </u> | <u> </u>                            |              | $\vdash$ |
|       | 122  | _  |          |  | -        | -        | -        | -                                   | _            | Н        |
|       | 123  |  |          |  | -        | ├        | -        |                                     | -            | $\vdash$ |
|       | 125  |  |          | $\vdash$   |          | $\vdash$ | -        |                                     | -            | $\vdash$ |
|       | 121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130 | -  | -        | -  | -        | -        | $\vdash$ | H                                   | _            | Н        |
|       | 127  |  | _        |  |          | Г        |          | Т                                   | $\vdash$     | П        |
|       | 128  |  |          |  |          |          |          |                                     | Г            | П        |
|       | 129  |  |          |  |          |          |          |                                     |              |          |
|       | 130  |  |          |  |          |          |          |                                     |              |          |
|       | 131  |  |          |  |          |          |          |                                     |              |          |
|       | 132  |  |          |  |          | L        | _        |                                     | _            | Ш        |
|       | 132<br>133<br>134  |  | _        | L  |          |          |          | <u> </u>                            | _            | Щ        |
|       | 134  | $\vdash$   | <u> </u> | H  |          | -        |          | <u> </u>                            | <del> </del> | Н        |
|       | 135<br>136   |  | _        |  |          |          |          | <u> </u>                            | _            | H        |
|       | 137  | -  | $\vdash$ | $\vdash$   | _        |          | -        | Ь—                                  |              | Н        |
|       | 137<br>138   | -  | $\vdash$ |  | -        |          |          | <u> </u>                            | -            | Н        |
|       | 139  | -  | -        | _  | _        | _        |          | -                                   |              |          |
|       | 140  |  | Г        | Г  |          |          |          |                                     |              | П        |
|       | 141  |  |          |  |          |          |          |                                     |              |          |
|       | 142  |  |          |  |          |          |          |                                     |              |          |
|       | 143  |  |          |  |          |          |          |                                     |              |          |
|       | 144  | 匚  |          | 匚  | Ľ        |          | 匚        |                                     | _            | Ш        |
|       | 145  |  | ļ        | _  | L        | _        | _        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>     | Ш        |
|       | 146  | <u> </u>   | _        | _  | <u> </u> | <u> </u> | <u> </u> | <u> </u>                            | <u> </u>     | Ш        |
|       | 147  | <del> </del> -                                   | <u> </u> | <u> </u>   | _        | <u> </u> | <u> </u> | <u> </u>                            | <u> </u>     | Ш        |
|       | 148  | <del>                                     </del> | -        | <del>                                     </del> |          | -        |          | <del> </del>                        | -            | Н        |
|       | 149  | ├-   | $\vdash$ | $\vdash$   | <u> </u> | -        | -        | -                                   | <del> </del> | Н        |
| L     | 150  | L  | L_       |  | L_       | L        | L.,      | <u> </u>                            |              | ш        |